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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Hiroyuki FURUYA,	§	
et al		§	
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Conf. No.:	To Be Assigned	§	Group Art Unit: To Be Assigned
		§	
International		§	Examiner: To Be Assigned
Appln. No.:	PCT/JP03/007831		
		§	
International		§	Atty. Docket No.: 10407-118US
Filing Date:	19 June 2003	§	(A3034MT-US1)

Title: OPTICAL SIGNAL TO ELECTRICAL SIGNAL CONVERTER

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)

Enclosed are copies of each of the documents listed on the attached Information Disclosure Citation Form(s) PTO/SB/08A and/or B, which may be material to the patentability of this application and/or for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

The enclosed references were cited in an International Search Report (copy enclosed) dated August 12, 2003, from the Japanese Patent Office concerning counterpart International Application No. PCT/JP03/07831.

In accordance with the official waiver posted July 11, 2003, wherein the U.S. Patent and Trademark Office officially waives the requirement under 37 C.F.R. § 1.98(a)(2)(i) for submitting copies of each cited U.S. Patent and U.S. Patent Application Publication with respect to applications filed after June 30, 2003, we have not included copies of such cited U.S. patent and U.S. Patent Application Publications. However, we will provide copies upon request. Copies of the foreign and non-patent references are attached hereto for the Examiner's convenience.

The filing of this Information Disclosure Statement shall not be construed as an admission that any of the listed documents constitutes prior art, nor as an admission against interest in any manner.

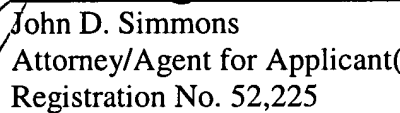
No fee is believed to be due in connection with the filing of this Information Disclosure Statement since it is being filed within three months of the filing date of the above-identified application. However, the Commissioner is hereby authorized to charge any deficiencies or credit any overpayments to Deposit Account No. 50-1017.

It is respectfully requested that this Information Disclosure Statement and the documents listed on the attached Form PTO/SB/08A and/or B be considered and acknowledged by the Examiner in connection with the above-identified patent application, be made of record therein, and that the listed document(s) be cited in the issued patent.

Respectfully submitted,

Hiroyuki FURUYA, et al

December 20, 2004
(Date)


John D. Simmons
Attorney/Agent for Applicant(s)
Registration No. 52,225
Direct Dial: 215-965-1268
E-Mail: jsimmons@akingump.com

Akin Gump Strauss Hauer & Feld LLP
One Commerce Square
2005 Market Street, Suite 2200
Philadelphia, PA 19103
Telephone No.: 215-965-1200
Fax No.: 215-965-1210

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Enclosures

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Form PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	To Be Assigned
		Filing Date	Herewith
		First Named Inventor	Hiroyuki FURUYA, et al
		Group Art Unit	To Be Assigned
		Examiner Name	To Be Assigned
Sheet	1	of	1
		Attorney Docket Number	10407-118US(A3034MT-US1)

U.S. PATENT DOCUMENTS			
Exr Initials	U.S. Patent Document		Name of First Inventor of Cited Document
	Number	Kind Code (if known)	
	6,144,679		Herman, et al.
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FOREIGN PATENT DOCUMENTS					
Exr Initials	Foreign Patent Document			Name of Applicant of Cited Document	Date of Publication of Cited Document MM-YYYY
	Country Code	Number	Kind Code (if known)		
	JP	11-024117	A	Hitachi Cable Ltd.	01-1999
	JP	11-183949	A	Hitachi Cable Ltd.	07-1999
	JP	2003-015175	A	Mitsubishi Electric Corp.	01-2003
	JP	09-321700	A	Yuseisho Tsushin Sogo Kenkyusho	12-1997
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				* = Abstract Only	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exr Initials	Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.	T ₁
	AVETISYAN, Y., et al., "Analysis of THz-wave surface-emitted difference-frequency generation in periodically poled lithium niobate waveguide", <u>Appl. Phys. B.</u> , 73, pp. 511-514 (2001).	X
	LEE, Y.-S., et al., "Generation of narrow-band terahertz radiation via optical rectification of femtosecond pulses in periodically poled lithium niobate", <u>Appl. Phys. Lett.</u> , Vol. 76, No. 18, pp. 2505-2507 (2000).	X
	SUHARA, T., et al., "Theoretical Analysis of Laterally Emitting Terahertz-Wave Generation by Difference-Frequency Generation in Channel Waveguides", <u>IEEE J. Quantum Electron.</u> , Vol. 39, No. 1, pp. 166-171 (2003).	X
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	LOYO-MALDONADO, V., et al., "Generation of Ultrashort Electrical Pulses in Semiconductor Waveguides", <u>CLEO 2002, Tuesday Afternoon</u> , pp. 256-257 (2002).	X
	KURI, T., et al., "Photononic Downconversion Technique Without Remotely Fed Local Light for Millimeter-Wave-Band Radio-on-Fiber Systems", <u>3rd Japan-Korea Joint Workshop on Microwave and Millimeter-Wave Photonics</u> , Technical Digest, pp. 91-94, (January 24-25, 2002).	X+
	X+ = Reference Not Attached. Unable to Locate Actual Article	

Examiner Signature		Date Considered	
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T₁ - Place a check mark if complete document is in English; otherwise, place a letter "A" if only an English abstract is attached.